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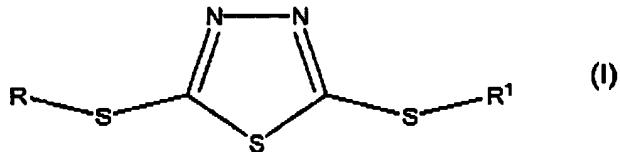
Application No. 10/678,408

AMENDMENTS TO THE CLAIMS:

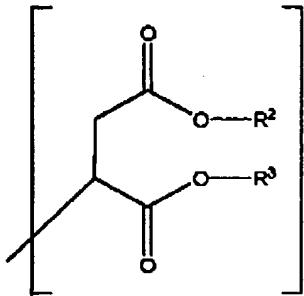
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A lubricating An antiwear composition for use as an additive for lubricants, comprising:
 - (a) a major portion of an oil of lubricating viscosity; and
 - (b) about 0.1 to 10 percent by mass of an antiwear additive comprising:
 - (1) an organo borate ester composition, wherein the amount of organo borate ester in the lubricating composition is less than about 1.0 percent by mass; and
 - (2) one or more components selected from the group consisting of:
 - (i) 1,3,4-thiadiazole compounds of the formula (I):



wherein R and R¹ are independently selected from hydrogen and C₈₋₁₂ thioalkyl or hydrogen, C₁₋₂₂-alkyl groups, terpene residue and maleic acid residue of the formula:



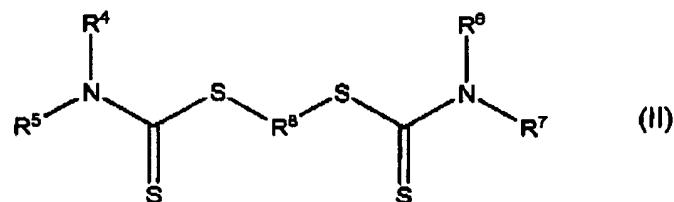
and R² and R³ represent C₁₋₂₂-alkyl and C₅₋₇-cycloalkyl groups, R or R¹ and either R² or

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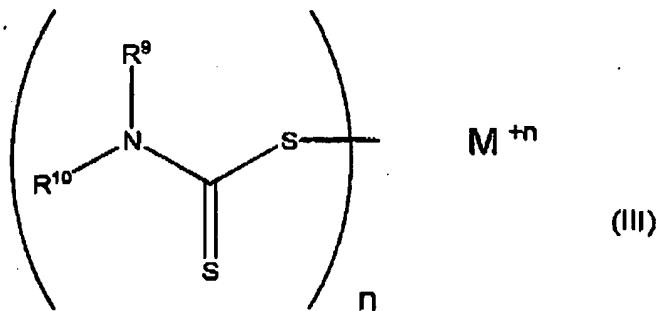
R^3 may be hydrogen, wherein the ratio of organo borate ester to the 1, 3, 4 - thiadiazole compound is 1:3 to 15:1

(ii) bisdithiocarbamate compounds of the formula (II):

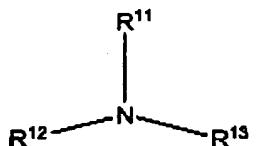


wherein R^4 , R^5 , R^6 , and R^7 are aliphatic hydrocarbyl groups having 1 to 13 carbon atoms and R^8 is an alkylene group having 1 to 8 carbon atoms, wherein the ratio of organo borate ester: bisdithiocarbamate is 1:6 to 15:1;

(iii) dithiocarbamates of the formula (III):



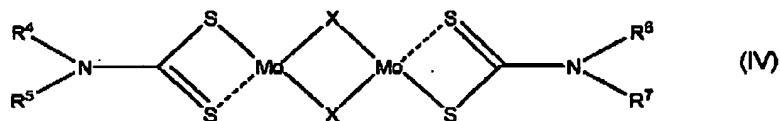
wherein R^9 and R^{10} represent alkyl groups having 1 to 8 carbon atoms, M represents metals of the periodic groups IIA, IIIA, VA, VIA, IB, IIB, VIB, VIII and a salt moiety formed from an amine of the formula:



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R^{11} , R^{12} and R^{13} being independently selected from hydrogen and aliphatic groups having 1 to 18 carbon atoms and n is the valence of M ;

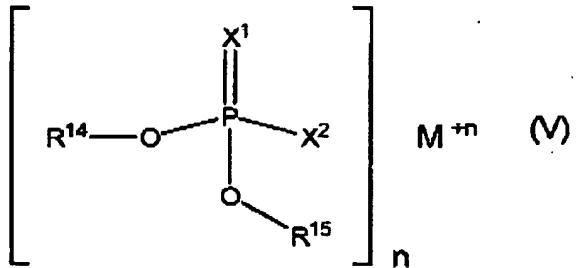
or the formula (IV):



$X = S$ or O

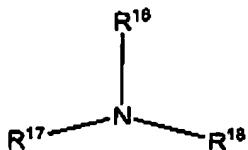
where R^4 , R^5 , R^6 , and R^7 are aliphatic hydrocarbyl groups having 1 to 13 carbon atoms and R^8 is an alkylene group having 1 to 8 carbon atoms; wherein the ratio of organo borate ester: dithiocarbamate is 1:15 to 15:1

(iv) phosphorodithioates of the formula (V):



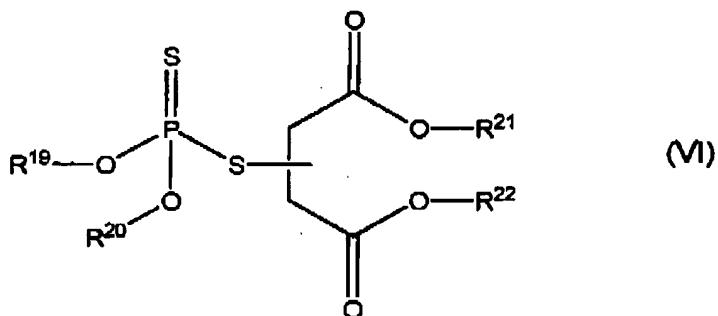
wherein X^1 and X^2 are independently selected from S and O, R^{14} and R^{15} represent hydrogen and alkyl groups having 1 to 22 carbon atoms, M represents metals of the periodic groups IIA, IIIA, VA, VIA, IB, IIB, VIB, VIII and a salt moiety formed from an amine of the formula:

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R^{16} , R^{17} and R^{18} being independently selected from hydrogen and aliphatic groups having 1 to 18 carbon atoms and n is the valence of M , wherein the ratio of organo borate ester: phosphorodithioate is 1:15 to 15:1; and

(v) phosphorodithioate esters of the formula (VI):



wherein R^{19} , R^{20} , R^{21} , and R^{22} may be the same or different and are selected from alkyl groups having 1 to 8 carbon atoms; wherein the ratio of organo borate ester: phosphorodithioate ester is 1:15 to 15:1; and

(vi) a non-sulfur molybdenum additive prepared by reacting (a) about 1.0 mole of fatty oil having 12 or more carbon atoms, (b) about 1.0 to 2.5 moles diethanolamine and (c) a molybdenum source, wherein the ratio of organo borate ester: non sulfur molybdenum additive is 1:15 to 15:1.

2. (Original) The composition of claim 1, wherein the borate ester composition is the reaction product formed by reacting about 1 mole fatty oil, about 1.0 to 2.5 moles diethanolamine followed by subsequent reaction with boric acid to yield about 0.1 to 3 percent boron by mass.

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3. (Original) The composition of claim 2, wherein the borate ester composition comprises about 0.8-1.2 % boron.
4. (Cancelled)
5. (Cancelled)
6. (Original) The composition of claim 3, wherein component (2) comprises (iii) the dithiocarbamates.
7. (Previously Presented) The composition of claim 1, wherein the ratio of component (1) to component (2) is about 2:1 to 1:1.
8. (Original) The composition of claim 3, wherein component (2) comprises (ii) the bisdithiocarbamates.
9. (Original) The composition of claim 8, wherein the ratio is about 1:4 to 9:1.
10. (Original) The composition of claim 3, wherein component (2) comprises (iv) the phosphorodithioates.
11. (Original) The composition of claim 3, wherein component (2) comprises (v) phosphorodithioate esters.
12. (Original) The composition of claim 3, wherein component (2) comprises the non-sulfur molybdenum additive of (vi).

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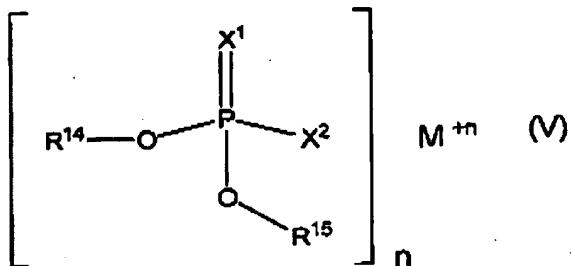
13. (Original) The composition of claim 12, wherein the ratio is about 1:1 to 3:1.

14. (Original) The composition of claim 3, wherein component (2) comprises (i) the thiadiazoles.

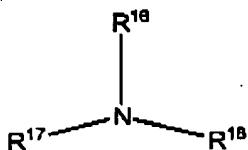
15. (Original) The composition of claim 14, wherein the ratio is about 3:7 to 9:1.

16. (Cancelled)

17. (Currently Amended) The lubricating composition of claim 1-6, wherein component (2) of the additive composition comprises a phosphorodithioate of formula V



wherein X¹ and X² are independently selected from S and O, R¹⁴ and R¹⁵ represent hydrogen and alkyl groups having 1 to 22 carbon atoms, M represents metals of the periodic groups IIA, IIIA, VA, VIA, IB, IIB, VIB, VIII and a salt moiety formed from an amine of the formula:



R¹⁶, R¹⁷ and R¹⁸ being independently selected from hydrogen and aliphatic groups having 1 to 18 carbon atoms and n is the valence of M,

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wherein the phosphorus content is less than 0.05% by mass, based on the total mass of the lubricating composition.

18. (Previously Presented) A method for providing increased antiwear protection to an engine, said method comprising the step of using a lubricating composition comprising

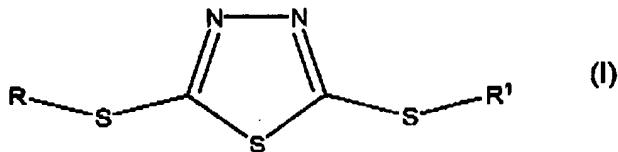
(a) a major portion of an oil of lubricating viscosity; and

(b) about 0.1 to 10 percent by mass of an antiwear additive comprising:

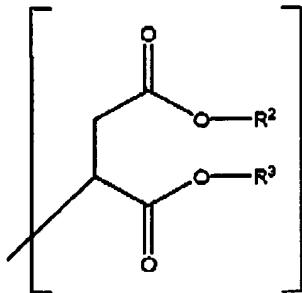
(1) an organo borate ester composition, wherein the amount of organo borate ester in the lubricating composition is less than about 1.0 percent by mass; and

(2) one or more components selected from the group consisting of :

(i) 1,3,4-thiadiazole compounds of the formula (I):



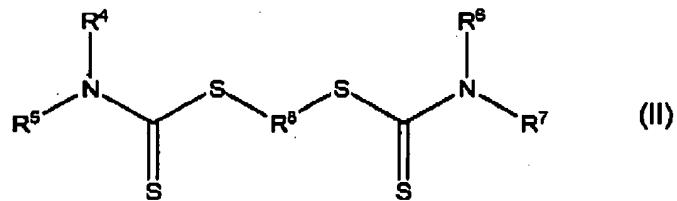
wherein R and R¹ are independently selected from hydrogen and C₈-12 thioalkyl or hydrogen, C₁-22-alkyl groups, terpene residue and maleic acid residue of the formula:



and R² and R³ represent C₁-22-alkyl and C₅-7-cycloalkyl groups, R or R¹ and either R² or R³ may be hydrogen, wherein the ratio of organo borate ester to the 1, 3, 4 - thiadiazole compound is 1:3 to 15:1

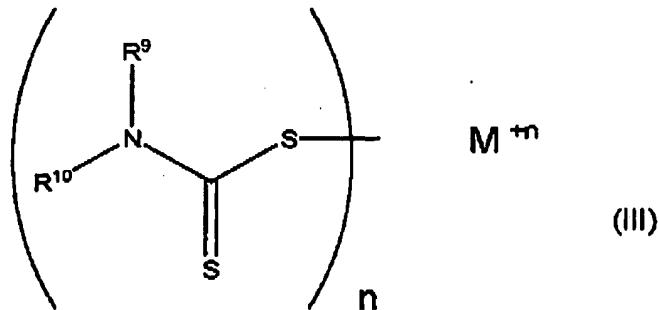
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(ii) bisdithiocarbamate compounds of the formula (II):

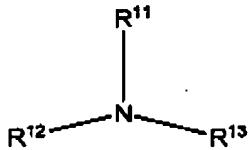


wherein R^4 , R^5 , R^6 , and R^7 are aliphatic hydrocarbyl groups having 1 to 13 carbon atoms and R^8 is an alkylene group having 1 to 8 carbon atoms, wherein the ratio of organo borate ester: bisdithiocarbamate is 1:6 to 15:1;

(iii) dithiocarbamates of the formula (III):



wherein R⁹ and R¹⁰ represent alkyl groups having 1 to 8 carbon atoms, M represents metals of the periodic groups IIA, IIIA, VA, VIA, IB, IIB, VIB, VIII and a salt moiety formed from an amine of the formula:

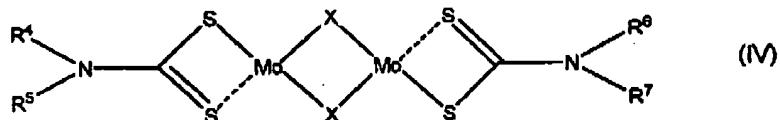


R^{11} , R^{12} and R^{13} being independently selected from hydrogen and aliphatic groups having

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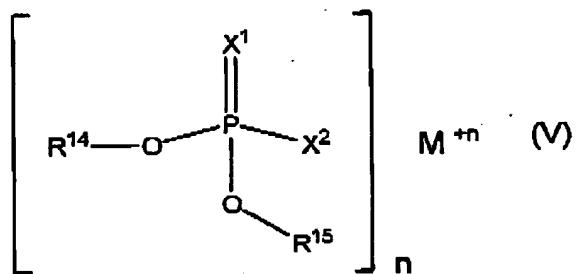
1 to 18 carbon atoms and n is the valence of M;

or the formula (IV):

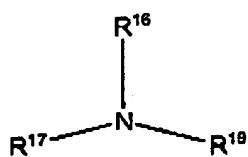
 $X = S$ or O

where R^4 , R^5 , R^6 , and R^7 are aliphatic hydrocarbyl groups having 1 to 13 carbon atoms and R^8 is an alkylene group having 1 to 8 carbon atoms; wherein the ratio of organo borate ester: dithiocarbamate is 1:15 to 15:1

(iv) phosphorodithioates of the formula (V):



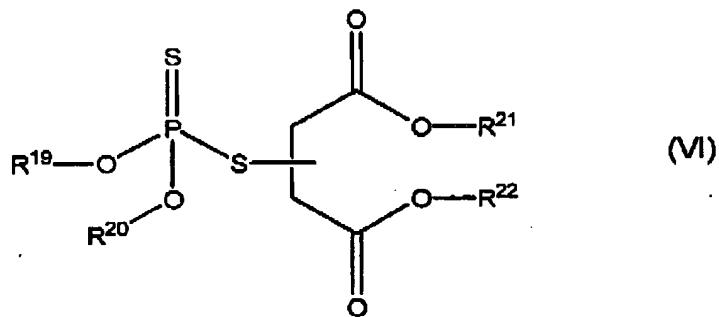
wherein X^1 and X^2 are independently selected from S and O, R^{14} and R^{15} represent hydrogen and alkyl groups having 1 to 22 carbon atoms, M represents metals of the periodic groups IIA, IIIA, VA, VIA, IB, IIB, VIB, VIIA and a salt moiety formed from an amine of the formula:



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R^{16} , R^{17} and R^{18} being independently selected from hydrogen and aliphatic groups having 1 to 18 carbon atoms and n is the valence of M , wherein the ratio of organo borate ester: phosphorodithioate is 1:15 to 15:1; and

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